QC ABSTRACT

NAME OF WORK: Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	3.91	2	2
8	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 21-05-20

Lab ID	:	CP-2020-11-24-51
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.79	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.9	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 16-06-20

Lab ID	:	CP-2020-11-24-51
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	19-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-11-24-51** **Date: 21-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-05-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	178	178	1.2	98.8	90-100
3	20 mm	7145	7323	48.8	51.2	30-70
4	10 mm	5699	13022	86.8	13.2	10-35
5	4.75 mm	1705	14727	98.2	1.8	0-5
6	Pan	273	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-11-24-51** **Date: 20-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2020-11-24-51** **Date: 20-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-05-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-11-24-51** **Date: 22-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-20
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	19-05-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	148	198	11810	32.140	2721.5	2707.2	Not less than 1800Kg/m^3
2	405	151	203	12414	33.222	2676.1		
3	398	153	201	12240	33.340	2723.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2020-11-24-51** **Date: 20-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	19-05-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe500	25	3.472	597	712	18.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-11-24-51** **Date: 09/06/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-20
Customer ID	:	Lintel Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M25	02/06/2020	09/06/2020	149.51 X 151.03 X 149.29	22580	8.121	539.9	23.9	22.9
2	Lintel Concrete	M25	02/06/2020	09/06/2020	151.18 X 151.20 X 149.41	22858	9.003	521.6	22.8	
3	Lintel Concrete	M25	02/06/2020	09/06/2020	150.68 X 150.51 X 151.76	22679	8.109	500.3	22.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-11-24-51** **Date: 15/06/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-20
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M25	08/06/2020	15/06/2020	151.86 X 149.16 X 151.14	22652	8.121	539.7	23.8	22.8
2	Roof Concrete	M25	08/06/2020	15/06/2020	150.31 X 149.83 X 151.63	22521	9.003	500.8	22.2	
3	Roof Concrete	M25	08/06/2020	15/06/2020	150.66 X 150.81 X 150.82	22721	8.109	508.4	22.4	

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	CP-2020-11-24-51 **Date: 02-06-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-20
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	30-05-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	CP-2020-11-24-51 **Date: 03-06-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-20
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	30-05-20
Total weight taken	:	1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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Certificate No.: TC-5548

TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2020-11-24-51** **Date: 08-06-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilets in Chowdeshwari Ward No:02 of Yelahanka Sub Division.
Agency	:	Sri.N.Thirunagendra, S/o Narayanaswamy, NO:184, Bestara Street, Yelahanka Old Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/16/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-06-20
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	02-06-20

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MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	300		300		6.05			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

SL.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	300	6.04	14.8	14.66
2	300	300	6.06	14.2	
3	300	300	6.02	14.9	
4	300	300	6.06	14.8	
5	300	300	6.05	14.6	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

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FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

End of Report

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